

**REMARKS/ARGUMENTS**

The Applicant has amended the claims to clarify that which the Applicant considers to be the invention. The Applicant respectfully submits that amendments to the claim set is fully supported by the originally filed specification.

Claim 1 has been amended to specify that the microcontroller uses VLIW processor circuitry. Support for this amendment is found throughout the specification, for example, at page 18, line 7 where a VLIW vector processor 74 is described in reference to the FIG 3.

Similarly, claims 2 and 7 have been amended to include a similar requirement that the microcontroller has VLIW processor circuitry.

Claim 3 has been cancelled with the VLIW processor circuitry feature of previous claim 3 inserted in currently amended claims 1, 2 and 7.

This amendment is in response to the Examiner indicating previous claim 3 as defining allowable subject matter if rewritten in independent form.

It is respectfully submitted that the amendments to claims 1, 2 and 7 traverse the 35 USC §103(a) rejections. Consequently, dependent claims 4, 5 and 6 are likewise novel and non-obvious over the cited prior art documents.

In relation to the 35 USC §112 rejection against claims 1-7, the Examiner is directed to page 139 under the heading "Print Head Interface 62" through to page 143 where the function of the Print Head Interface 62 is described in detail. This disclosure, at least, sufficiently describes the use and function of the Print Head Interface in such a way as to enable one skilled in the art to make and use the claimed invention. The microcontroller 31 and its functional requirements are described throughout the specification with reference to "processor circuitry that is positioned on the wafer substrate" by reference to pages 139-143. Likewise, one skilled in the art could readily interpret and understand as an enabling disclosure the "print head interface circuitry that is positioned on the wafer substrate". There is no distinction as to why one skilled in the art would be able to make and use the processor

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circuitry but not the print head interface circuitry. The Examiner's reconsideration of this rejection is requested.

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### CONCLUSION

In view of the foregoing, it is respectfully requested that the Examiner reconsider and withdraw the rejections under 35 USC §112 and 35 USC §103. The present application is believed to be in condition for allowance. Accordingly, the Applicant respectfully requests a Notice of Allowance of all the claims presently under examination.

Very respectfully,

Applicant:



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